#### TO MEET THE DICAMBA TRAINING REQUIREMENTS

Some states have additional restrictions and requirements. Check with your state pesticide regulatory agency for additional training and application requirements or restrictions.

- As of March 3, 2022, Alabama, Florida, Georgia, and North Carolina do not accept online or live webinar dicamba applicator training provided by Syngenta. We will update the list as additional states approve dicamba applicator training provided by Syngenta.
- As of March 15, 2022, you must have all labeling applicable to your location in your possession for this product to be lawfully applied. Users must check www.TaviumTankMix.com for state specific additional labeling no more than 7 days before application.

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2022 Application Education for Dicamba Herbicides Approved for Use in Dicambatolerant Cotton and Dicamba-tolerant Soybeans

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Welcome to the Syngenta Dicamba Training. This training will guide you through the latest application requirements for applying dicamba herbicides approved for use in dicamba-tolerant cotton and dicamba-tolerant soybeans in 2022.

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## Application Awareness Section 1 of 2

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#### Mandatory training requirements

- The U.S. Environmental Protection Agency is requiring applicators to complete annual dicamba or auxin-specific training for dicamba products labeled for use in dicamba-tolerant cotton or dicambatolerant soybeans.
- Some states require state-specific dicamba or auxin-specific training. If you intend to apply
  dicamba products in a state that requires this training, you must complete that training instead. If
  you intend to apply dicamba in a state that does not require dicamba or auxin-specific training, you
  must complete a training course provided by a registrant of a dicamba product approved for in-crop
  use with dicamba-tolerant crops, or by a state/state-authorized provider.
- Dicamba products registered for use in dicamba-tolerant cotton and dicamba-tolerant soybeans are Restricted Use Pesticides and may only be applied by Certified Applicators.
- Please note: The EPA requires state-specific Certified Applicator training when purchasing Restricted Use Pesticides. This training is not a substitute.
- Consult your state about additional training and application requirements to apply dicamba.

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#### States that May Require Applicators to Complete State-specific Dicamba Training

Contact these states directly if you plan to apply dicamba products in any of them.

- <u>Alabama:</u> Call an Alabama Extension specialist or the Alabama Department of Agriculture and Industries (334) 240-7243.
- <u>Florida:</u> Search for the online course from the IFAS Extension & the University of Florida (https://ifas-pest.catalog.instructure.com).
- Georgia: Access information about the "Using Pesticides Wisely" course offered by the University
  of Georgia Extension and the Georgia Department of Agriculture at <a href="http://agr.Georgia.gov/auxin-main.aspx">http://agr.Georgia.gov/auxin-main.aspx</a>.
- North Carolina: Contact the North Carolina Department of Agriculture & Consumer Services (919) 733-3556 or <a href="http://www.ncagr.gov/spcap/pesticides">http://www.ncagr.gov/spcap/pesticides</a>).

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#### Approved Dicamba Formulations Covered by This Training

- · Tavium® Plus VaporGrip® Technology (Syngenta)
- XfendiMax® herbicide with VaporGrip® Technology (Bayer)
- · Engenia® Herbloide (BASF)
- These are low-volatility dicamba formulations. DO NOT USE UNAPPROVED DICAMBA FORMULATIONS for application to dicambatolerant soybeans and dicamba-tolerant cotton. They may result in significant off-target movement and/or significant penalties assessed by state regulatory authorities.
- The application requirements in this training apply to all labeled uses of these products. These materials are designed to meet federal training requirements. State application and training requirements may differ.
- · Always read and follow the specific product label. Label language may vary with the dicamba product you are using.
- Note for Texas applicators: Completion of auxin training provided by Texas A&M Agril. fe will certify you to apply all dioamba products.
   However, completion of this training will only permit you to apply Tavium® Plus VaporGrip® Technology.
- Note for Oklahoma applicators: Completion of dicamba training provided by Oklahoma State University (OSU) will certify you to apply all
  dicamba products. Completion of this training will only permit you to apply Tavium® Plus VaporGrip® Technology, XtendiMax® herbicide
  with VaporGrip® Technology, and Engenia® Herbicide.
- Note for lowa applicators: DO NOT apply after June 20th.
- Note for Minnesota applicators: DO NOT apply south of interstate 94 after June 12<sup>th</sup>. DO NOT apply north of interstate 94 after June 30<sup>th</sup>. Statewide restriction: DO NOT apply if the air temperature of the field at the time of application is over 85°F or if the National Weather Service's forecasted high temperature for the nearest available location for the day exceeds 85°F. Forecasted temperature must be recorded at the start of the application.

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#### Where to Find Additional Information

**Note:** The label affixed to the product container may contain incomplete or outdated directions for use. Applicators **must** be in possession of updated labeling with an expiration date of December 20, 2025, at the time of use.

- Tavium® Plus VaporGrip® Technology (Syngenta)
  - · Stewardship: www.syngenta-us.com/herbicides/Taylum-application-stewardship
  - Tank-Mix Partners: <u>www.TaviumTankMix.com</u>\*
  - State Specific Labeling: <u>www.TaviumTankMix.com\*</u>
- XtendiMax® herbicide with VaporGrip® Technology (Bayer)
  - · www.xtendimaxapplicationrequirements.com\*
- Engenia<sup>®</sup> Herbicide (BASF)
  - Stewardship: www.engeniastewardship.com
  - Tank-Mix Partners: www.engenialankmix.com\*

\*These websites are where you will find updated labeling as well as other important information on drift-reduction agents (DRAs), volatility-reduction agents (VRAs), approved nozzles, and qualified hooded/shielded sprayers.

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#### About Dicamba Herbicide

- · Broadleaf plants are susceptible, while grass weeds are generally tolerant.
- Dicamba is a systemic herbicide. It is taken up by the plant and translocates or moves within the plant to the growing points.
- Damage will be observed to the plants' new growth, and symptoms may be slow to develop, in some cases as long as two or more weeks after exposure.
- Symptoms have been shown to occur with as little as 1/2,500 of a full rate on nondicamba-tolerant soybeans.
- · Damage symptoms do not correlate well with rate of exposure (flat dose response).
- Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. DO NOT apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow.

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#### **Protecting Nearby Sensitive Plants**

- When planning fields for planting, consult neighbors to understand their planting intentions in adjacent (immediately next to or only separated by a road, ditch, or field road) or nearby fields to avoid planting dicamba-tolerant crops next to sensitive plants.
- Prior to making a dicamba application, investigate and document what sensitive plants are in the surrounding area.
  - Consult sensitive crop registries such as <a href="https://www.DriftWatch.org">www.DriftWatch.org</a> prior to making applications. Application records must include the name of the sensitive crop registry and the date consulted.
  - Survey neighboring areas for sensitive plant species, such as non-dicamba-tolerant soybeans/cotton, ornamentals, vegetable crops, residential plantings, fruit trees, and other tree species. Document the survey of adjacent areas, including the date.





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#### Dicamba-Sensitive Crops/Plants

Many plants are highly sensitive or susceptible to dicamba, including, but not limited, to:

- · Non-dicamba-tolerant cotton
- · Non-dicamba-tolerant soybeans
- EPA Crop Group 6 (peas and beans)
- EPA Crop Group 8 (fruiting vegetables, including peppers and tomatoes)
- EPA Crop Group 9 (cucurbit group, including cucumbers and melons)
- · Flowers
- Fruit trees
- · Grapes

- Ornamental plantings, including broadleaf ornamentals grown in greenhouses and shade houses
- · Other broadleaf plants
- Peanuts
- Potatoes
- Sugar beets
- Sweet potatoes
- Sunflower
- Tobacco

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#### Prevent Drift to Sensitive Crops/Plants

- DO NOT apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or rendered unfit for sale, use, or consumption.
- Do not apply when the wind is blowing toward adjacent (immediately next to or only separated by a road, ditch, or field road) dicamba-sensitive crops or other plants. If wind direction shifts during application such that the wind is blowing toward adjacent sensitive crops or other plants, the applicator must stop spraying.
- Required spray buffers are an important way to help protect dicamba-sensitive plants. Buffer requirements will be discussed later in this training.

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#### Sensitive Areas

- This pesticide may only be applied when the potential for drift to adjacent (immediately next to or only separated by a road, ditch, or field road) sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or sensitive species, non-target crops) is minimal (i.e., when wind is blowing away from the sensitive areas).
- · Sensitive areas include:
  - · Bodies of water
  - Ditches
  - Woodlands
  - Native vegetation
  - · Residential areas

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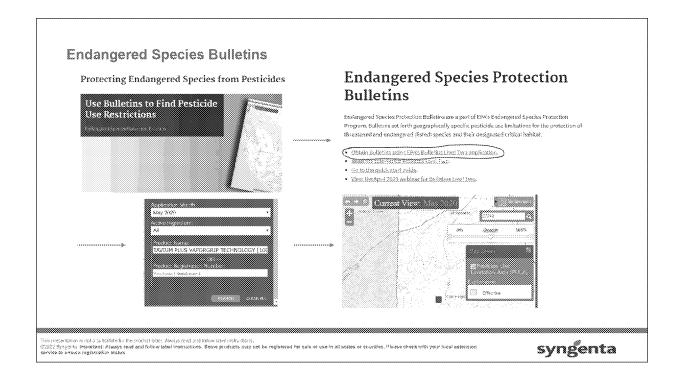
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#### Requirements for Protection of Endangered Species

It is a Federal offense to use any pesticide in a manner that results in the death of an endangered species. The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify its habitat is a violation of Federal law. Use of these dicamba products inconsistent with their labeling may pose a hazard to endangered or threatened species.

- Prior to making a dicamba application on dicamba-tolerant cotton or dicamba-tolerant soybeans, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product.
- To obtain bulletins, call 1-844-447-3813 or consult http://www.epa.gov/espp/ no more than six months before using one of the dicamba products covered by this training.
- · You must use the bulletin valid for the month in which you will apply the product.

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#### Required Buffer Zones

- A downwind buffer is required between the last treated row and the nearest downwind field edge.
  - The user must ensure there is a 240-foot downwind buffer when applying with broadcast, open-boom equipment.
  - When using a qualified hooded/shielded sprayer, the applicator must always maintain a
    minimum 110-foot downwind buffer. Qualified hooded/shielded sprayers are listed on
    each product's website.
- Prior to making an application on dicamba-tolerant cotton or dicamba-tolerant soybeans, an
  applicator must visit http://www.epa.gov/espp/ to determine if there are any additional buffer
  requirements for the protection of threatened or endangered species within the area to be
  sprayed.

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#### Use of Hooded/Shielded Broadcast Sprayers



642E Three-Point Broadcast Hooded Sprayer Photo from https://www.willimartetusoru/642E.php

- Products may be applied using a qualified (approved) hooded/shielded broadcast sprayer listed on the respective product's tank mix website. Further information can be found at:
  - · www.TaviumTankmix.com
  - www.engeniatankmix.com
  - www.xtendimexapplicationrequirements.com
- When using a qualified hooded/shielded sprayer, the applicator must always maintain a minimum 110-foot downwind buffer between the last treated row and the nearest downwind field edge.
- Users must consult Endangered Species Protection Bulletins for ESA counties and restrictions.

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#### Areas that may be included in the Buffer Distance Calculation

#### Counties without Endangered Species Restrictions Counties with Endangered Species Restrictions

- Roads, paved or gravel surfaces, mowed grass areas.
   Roads, paved or gravel surfaces, mowed grass areas. and areas of bare ground from recent plowing or grading that are configuous to the treated field
- Planted agricultural fields containing, corn, dicambatolerant cotton, dicamba tolerant soybeans. sorghum, proso millet, small grains, sugarcane, and other crops approved for postemergence dicamba use.
  - If the applicator intends to include dicamba-tolerant cotton and/or dicampa-tolerant soybeans in the buffer distance. calculations, the applicator must confirm the crops are in fact. dicamba tolerant and not conventional cotton and or so thears.
- Agricultural fields that have been prepared for planting
- Areas covered by the footprint of a building, slip, or other man-made structure with walls and/or roof

- adjacent to (immediately next to or only separated by a road, ditch, or field road) field, and areas of bare ground from recent plowing or grading that are configuous with the treated field
- Planted agricultural fields containing dicamba-resistant. plantings of cotton and soybeans
- · Areas covered by the footprint of a building, silo, or other man-made structure with walls and/or roof

Prior to application, users must always follow the instructions contained in the Endangered Species Protection Bulletin for the area in which they are applying the product.

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#### Weed Management Practices in Buffer Zones

- Use good agronomic practices that enhance crop competitiveness such as narrow row spacing, higher crop seeding rates, crop rotation, or precision fertilizer applications that favor the crop and not the weeds.
- Plant into weed-free fields utilizing tiliage or an effective burndown herbicide for control of emerged weeds.
- Apply preemergence residual herbicides at planting to reduce early season emergence of weeds.
- Make applications of dicamba over-the-top products (Tavium, Engenia, Xtendimax) when wind is not blowing towards sensitive crops and/or plants.
- Return to the field when the wind is no longer blowing towards sensitive crops and/or plants and spray buffer area.
- Utilize alternative postemergence herbicides (e.g., glyphosate, fomesafen, glufosinate).





The photo on the left demonstrates weed competition with the crop when NO preemergence residual herbicide is used and followed by a postemergence herbicide program.

The photo on the right demonstrates the value of a preemergence residual herbicide when followed by a postemergenece herbicide program, Indiana - 2000

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#### Prior to Application

- Read and follow label application requirements. The applicator is responsible for ensuring applications are made following label guidelines.
- Consult state and local regulations and follow all requirements for application of dicambacontaining products to dicamba-tolerant cotton and dicamba-tolerant soybeans.
- · Know the surrounding area and survey for sensitive crops.
- · Adhere to label-required buffers.
- · Properly clean the spray tank to avoid contamination from previous applications.
  - If the previous spray solution contains ammonium sulfate, even small amounts left in the spray tank may negate the benefit of low volatility formulations.
- Know weather conditions, such as wind speed, potential for temperature inversion, impending rainfall, etc.

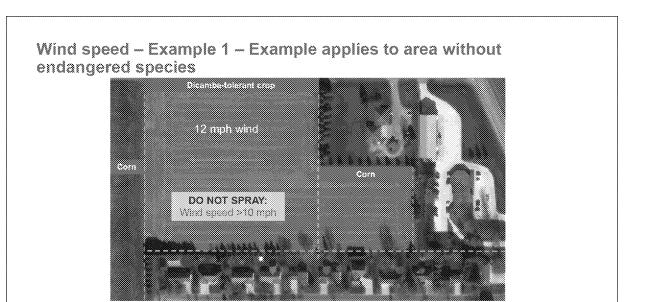
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### Wind Speed

- Applications may only be made when wind speed is between 3-10 mph.
- · Wind speed must be determined at the site of application.
  - Record wind speed and direction at boom height at the start and completion of each application, using an anemometer or other wind meter, not a weather app.
  - Monitor throughout the application.
  - Be aware of wind gusts and shifting wind direction; adhere to downwind buffer requirements.

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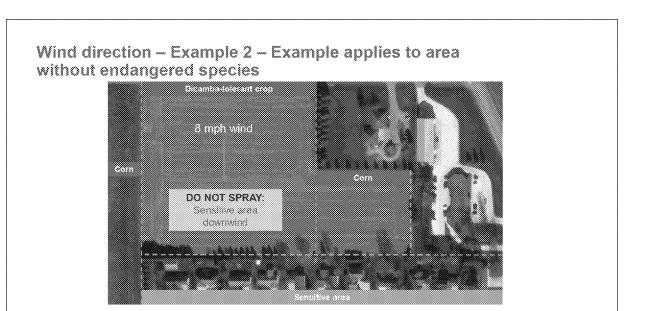


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Here, the wind speed is greater than 10 miles per hour, so the application may not be made regardless of wind direction.

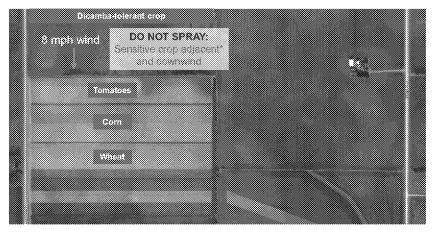


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Here, the wind speed is below 10 miles per hour, but there is a residential area downwind and the required buffer is missing, so the application may not be made.

# Wind direction – Example 3 – Example applies to area without endangered species

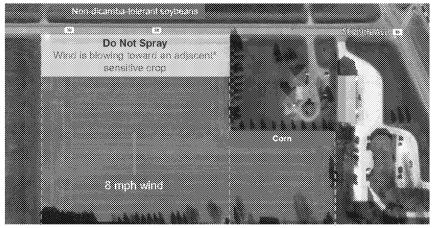


\*immediately next to or only separated by a road, ditch, or field road

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Here, the wind speed is below 10 miles per hour, but there are sensitive crops downwind so the application may not be made.

## Wind direction – Example 4 – Example applies to area without endangered species



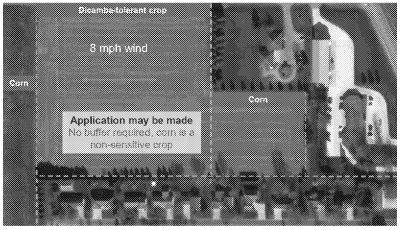
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Here, the wind speed is below 10 miles per hour, but there are sensitive crops downwind and the required buffer is missing, so the application may not be made.

## Buffer zone – Example 1 – Example applies to area without endangered species

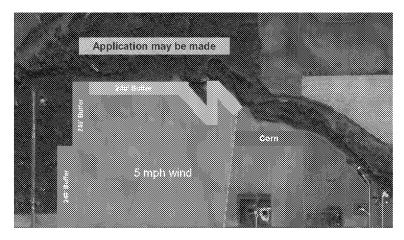


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Here you see the wind speed is less than 10 miles per hour, and no temperature inversion is present. The downwind crop is corn, which is not a sensitive crop, so no buffer is required.

Buffer zone – Example 2 – Broadcast, open-boom application – Example applies to area without endangered species



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Here you see the wind speed is less than 10 miles per hour, and no temperature inversion is present.

The wind is in the direction of an area of native vegetation, so for this broadcast, open-boom application, a 240-foot buffer is required to protect the native vegetation.

Since the wind is at a diagonal direction, the buffer is maintained on two sides of the field to protect the entire area wooded area.

## Preventing off-target movement

- It is critical applicators understand sources of off-target movement and take the correct actions.
  - · Follow all label requirements for set-up of spray equipment
  - · Applications must adhere to federal, state and label guidelines
- · Off-target movement can occur from:
  - · Physical drift
  - · Secondary movement
  - · Sprayer contamination

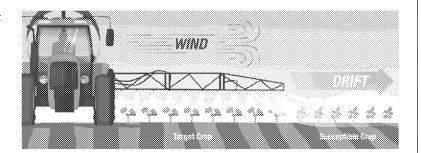
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## Physical drift

Occurs when droplets exiting the nozzles do not land on the target location. Physical drift is the most common off-target movement.

Physical drift is impacted by:

- Wind speed
- Boom height
- Nozzle selection
- \* Droplet size
- Sprayer speed
   Temperature
- · Relative Humidity



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### Relationship of droplet size to distance traveled

#### How far will spray particles move?

Diraplet size	Diameter (in am	Time to fall 19 ft	Travel distance in Smph winds
Fog	5	66 minutes	15 840 ft
Very fine	20	4.2 minutes	1,100 ft
Fine	100	10 seconds	44 ft
Medium	240	6 seconds	28 ft
Coarse	400	2 seconds	8.5 ft

**Bottom Line:** Using nozzles that produce droplets smaller than the labeled requirements may cause significant problems with drift.

Source: Hofman & Solsone; 2017 - University of Missouri Extension

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The longer the time it takes droplets to fall (due to a smaller size), the more susceptible these droplets are to movement and can move across great distances. Note that the movement distance occurs at a wind speed of only 3 miles per hour. Approved dicamba products require the use of nozzles that produce extremely coarse to ultra-coarse droplets to ensure they are deposited on the target.

## Secondary movement

- · Secondary movement may occur as a result of factors other than those caused by physical drift.
- · Secondary movement can be caused by:
  - · Temperature inversion
  - Movement of dust: Application in dusty conditions may cause off-target movement; wind events subsequent to the application can deposit dust particles on non-target species.
  - · Water runoff from a heavy rainfall event
  - Volatility: Movement of pesticide as a gas or vapor after spray application

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#### Temperature inversions

- DO NOT apply a dicamba product during a temperature inversion, because drift potential is high.
- An inversion occurs when air temperature increases with height from the ground's surface.
  - · This results in a layer of cool air left at the ground's surface.
- If a pesticide is sprayed during a temperature inversion, droplets of the pesticide can gather at the cool layer near the ground's surface.
  - This creates the opportunity for unpredictable movement by the pesticide, which can result in movement away from the target area.
- To avoid temperature inversions, do not apply until at least one hour after sunrise and no later than two hours before sunset.

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### Recognizing temperature inversions

There is no substitute for on-site observation to determine if a temperature inversion exists.

Conditions, indicators and duration

- · Usual conditions at onset:
  - Sunset
  - · Clear to partly cloudy skies
  - Light to no wind
- · Often indicated by
  - · Ground fog
  - · Smoke that layers and moves laterally in a concentrated cloud
  - · Dust hanging over road
  - · Dew or frost
- Inversions typically dissipate with increased winds (>3 mph) or when surface air begins to warm at sunrise (+3°F from morning low).

Source University of Missouri Extension

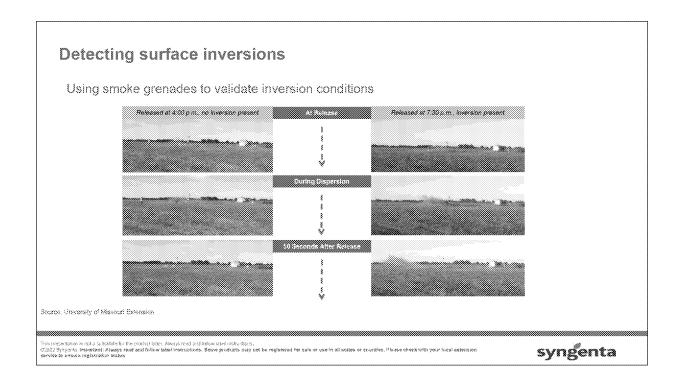




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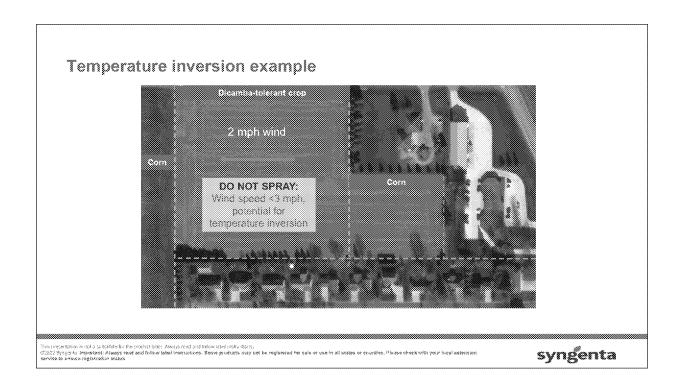
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There are weather websites and phone apps that provide information on temperature inversion conditions. However, weather websites and apps may rely on information miles from the site, so these are not perfect and are not a substitution for on-site observations.



Here you see a smoke grenade demonstration to validate temperature inversion conditions.

Note the images on the right-hand side show how the smoke remains near the ground. A temperature inversion will have the same effect on fine droplets, causing them to remain concentrated near the soil surface and subject to random off-target movement with the potential to damage sensitive crops and plants.



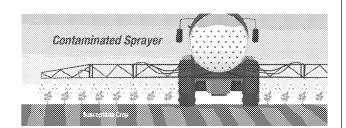
Here you see the potential for temperature inversion due to low wind speed.

## Sprayer contamination

Severe crop injury may occur to sensitive crops if any dicamba product remains in the spray equipment that is then used to spray those sensitive crops. As little as 8 fl oz of a dicamba solution left in a 1,200-gallon sprayer will cause significant injury.

User must ensure entire spray system is properly cleaned before and after each application.

After using a dicamba product, clean all mixing and spray equipment (including tanks, pumps, lines, filters, screens and nozzles) with a strong, detergent-based cleaner.



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#### Integrated weed management to combat resistance

- · Scout and know your field before application.
- · Diversify weed control practices.
- Use good agronomic practices, start clean, and stay clean.
- · Scout fields after application to verify that the treatment was effective.
- · Report suspected resistance.

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#### Scout and know your field before application



- Scout field prior to application to determine species present and growth stage.
- Understand the biology of the weeds present.
- Ensure the weed-management program will control all weeds present.
- Always apply dicamba herbicides at full labeled rates and correct timing for the weeds present in the field.
- For best performance, treat weeds early, when they are less than 4 inches tall.

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Here you see a variety of waterhemp plants at different growth stages. Waterhemp and Palmer amaranth are two of the most problematic weeds and must be sprayed early for maximum and consistent control.

Proper timing of application also helps to protect yield and is important to delay the development of herbicide resistance.

# Principles of Herbicide Resistance Management

- ☐ Use good agronomic practices that enhance crop competitiveness.
- Use non-herbicidal weed management tactics such as cover crops, mechanical weed control, or harvest weed seed
- ☐ Plant into weed-free fields and control weeds along field borders.
- ☐ Use a preemergence herbicide with a different site of action from the dicamba product being used as the foundation of the weed-control program.
- Use tank mixtures of herbicides from different sites of action to reduce the selection of resistant weed biotypes.
- Q DO NOT use more than two applications of any herbicide with the same site of action in a single growing season, unless it is mixed with another herbicide with another effective site of action.
- ☐ Sanitize farm equipment to avoid spreading seed or vegetative propagules prior to leaving fields.











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#### Scout fields after application to verify that the treatment was effective.

- Indicators of possible herbicide resistance include;
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds
  - A spreading patch of non-controlled plants of a particular weed species
  - Surviving plants mixed with controlled individuals of the same species
- If resistance is suspected contact your retailer, your sales rep, or the company directly.

Syngenta: 1-866-796-4368Bayer: 1-844-779-8363BASF: engeniaquestions.com

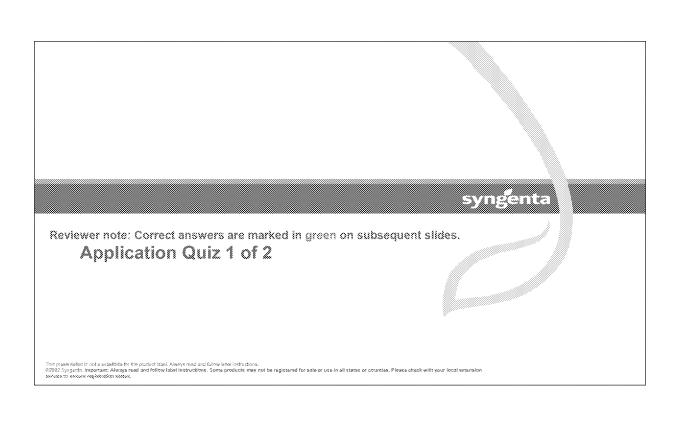
Prevent weed escapes before, during, and after harvest.



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# Quiz Question 1 Application of dicamba-containing products may only be made when wind speed is greater than 3 mph but less than 10 mph. A. True B. False

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Applicators must do which of the following prior to applying dicamba-containing products?

- A. Read and follow label application requirements
- B. Consult state and local regulations, and follow all requirements
- C. Know the surrounding area and survey for sensitive crops
- D. Adhere to label-required buffers
- E. Properly clean the spray tank to avoid contamination from previous applications
- F. Know weather conditions such as wind speed, potential for temperature inversion, impending rainfall, etc.
- G. All of the above

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When is a buffer zone required when you apply these dicamba products?

- A. Aiways
- B. Only when you spray at wind speeds > 10 mph
- C. A buffer is not required when there is no sensitive crop downwind
- D. Only when endangered species are present in the county at the time of application

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Which of the following crops are considered highly sensitive or susceptible to dicamba? (check all that apply)

- A. Tobacco
- B. Grapes
- C. Ornamental plantings (i.e. broadleaf ornamentals in greenhouses and shade houses)
- D. Dicamba-tolerant cotton
- E. Potatoes
- F. Non-dicamba-tolerant soybeans
- G. Fruiting vegetables
- H. Curcurbits
- I. Flowers
- J. Fruil trees

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Which of the following requirements for applying dicamba products are correct? (Check all that apply.)

- A. Use only approved nozzles
- B. Use a minimum application volume of 10 gpa
- C. Read and follow the specific product label
- D. Sprayer calibrated once at the start of the season
- E. Only spray between one hour after sunrise and two hours before sunset
- F. Use only approved tank-mix partners
- G. Application must be certified and records kept for one year

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Weather conditions that might indicate the potential for a temperature inversion include?

- A. Wind speed less than 3 mph
- B. Ground fog
- C. Dust hanging over a gravel road
- D. Smoke that does not rise
- E. All of the above

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Who do you contact if you observe any incidence of non-performance of a dicamba product against a particular weed species? (Check all that apply.)

- A. Your neighbor
- B. Your product retailer
- C. Local product representative or manufacturer of the product
- D. Contact is not necessary

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Select all statements that are good agronomic practices to the delay development of resistance to dicamba.

- A. Use lower than label rates
- B. Apply multiple effective sites of action that target the weeds in your field
- C. Delay application and spray large weeds to ensure all weeds have emerged
- D. Make herbicide applications at the recommended time appropriate for each weed and crop
- E. Use dicamba products as part of an integrated system that includes the application of a preemergence residual herbicide
- F. Utilize cultural practices, such as cultivation, narrow rows and cover crops to supplement weed control

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#### TO MEET THE DICAMBA TRAINING REQUIREMENTS

Some states have additional restrictions and requirements. Check with your state posticide regulatory agency for additional training and application requirements or restrictions.

- As of March 3, 2022, Alabama, Florida, Georgia, and North Carolina do not accept online or live webinar dicamba applicator training provided by Syngenta. We will update the list as additional states approve dicamba applicator training provided by Syngenta.
- As of March 15, 2022, you must have all labeling applicable to your location in your possession for this product to be lawfully applied. Users must check www.TaviumTankMix.com for state specific additional labeling no more than 7 days before application.

Syngenie

# Application Requirements Section 2 of 2

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#### Application requirements

- All applications require an approved volatility reduction agent (VRA) / buffering agent / pH
  modifier. A list of approved VRAs / buffering agents / pH modifiers can be found on the website of
  the product being used.
- An approved drift reduction agent (DRA) must be included in the spray solution, unless
  otherwise indicated on the website of the product being used.
- Products must only be applied from one hour after sunrise until two hours before sunset.
- Do not apply these products if rainfall that could exceed soil field capacity and result in runoff is expected within 48 hours.
- · Do not exceed a ground speed of 15 mph.
- · Boom height must not to exceed 24 inches above target weeds/crop canopy.
- Apply in a minimum of 15 GPA.
- Do not apply when wind speed is less than 3 mph or greater than 10 mph.
- Only use approved nozzles designed to produce extremely coarse to ultra-coarse droplets.
  - · A list of approved nozzles can be found on the website of the product being used.

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# Key differences between Tavium® Plus VaporGrip® Technology and solo dicamba products

Allow a minimum of 7 days between application and harvest.  DO NOT make more than one application on coarse-textured soils.  May be applied post-emergence through the 6-leaf growth stage.  Maximum annual rate = 113 fl oz/A.  Dicamba-tolerant soybeans  DO NOT make more than one prepiant, at-pianting, or pre-emergence application and/or one post-emergence emergence (in-crop) application.  May be applied post-emergence through the V4 growth stage.  Maximum annual rate = 113 fl oz/A.  All these products have the same out-off dates for applications.  Applications to dicamba-tolerant cottom may dray be made strongly June 20.  All these products have the same out-off dates for applications.  Applications to dicamba-tolerant soybeans may use he made strongly June 20.  Applications to dicamba-tolerant soybeans may use he made strongly June 20.	Dicamba-tolerant cotton	DO NOT make more than one preplant, at-planting, or pre-emergence application and/or one post-emergence (in-crop) application on medium- or fine-	A maximum of two burndown/early preplant, preplant, at-planting, and pre-emergence and two in-crop applications may be made.	DO NOT make more than two applications preplant or pre-emergence per year
DO NOT apply within 7 days of harvest.  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 51.2 fl oz/A  Maximum annual rate = 51.2 fl oz/A  Dicamba-tolerant soybe ans  DO NOT make more than one preplant, at-planting, or pre-emergence application and/or one post-emergence (in-crop) application.  May be applied post-emergence through the V4 growth stage.  Maximum annual rate = 113 fl oz/A.  Maximum annual rate = 113 fl oz/A.  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 88 fl oz/A  Applications to ideantaly breplant, at-planting, preplant, at-planting, and pre-emergence and two in-crop applications may be made.  Maximum annual rate = 113 fl oz/A.  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 51.2 fl oz/A  Maximum annual rate = 88 fl oz/A  Maximum annual rate = 88 fl oz/A			<b>√</b>	DO NOT make more than two applications pos- emergence per year.
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# Sprayer setup and operation

- Spray equipment should be calibrated prior to each use for accurate and uniform applications to minimize the potential of drift.
- Applicator must use an approved nozzle within a specified pressure range as found at the product website listed on the product label.
- Use nozzles designed to produce extremely coarse to ultra-coarse droplets. Avoid using screens and strainers finer than 50-mesh.
- · Do not exceed a ground speed of 15 mph.
- · Do not exceed a boom height of 24 inches above target weeds/crop canopy, whichever is smaller.

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# Tank mixing requirements

- <u>DO NOT</u> tank-mix dicamba products with ammonium sulfate (AMS). Small quantities of AMS can greatly increase the volatility potential of dicamba.
- You MUST check the website of the product you are using for approved tank-mix products no more than seven days before application.
  - Only use approved tank-mix partners.
    - Contact the product manufacturer if a tank-mix partner you want to use with dicamba is not on the list. The manufacturer can provide additional guidance.
  - All applications must include an approved volatility-reduction agent (VRA) / buffering agent (pH modifier).
  - An approved drift-reduction agent (DRA) must also be included in the spray solution, unless otherwise indicated.
- Observe all precautions, directions for use and restrictions on the labels of each product used in tank mixtures. Follow the most restrictive label precautions and limitations.

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# Mixing order

- 1. Fill the spray tank ½ to ¾ full with clean water.
- 2. Begin tank agitation and continue agitation throughout mixing and spraying.
- 3. Be sure to allow each tank-mix component to fully disperse before adding the next one.
- 4. Add approved dry formulations (WP, DF, etc.) to tank.
- 5. Add approved liquid formulations (EC, SC, SL, etc.) to tank.
- 6. Add required, approved spray additives.
- 7. Fill remainder of spray tank.
- 8. The tank mixture should be sprayed out as soon as it is prepared.

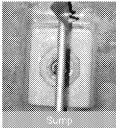
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# Preventing contamination

It is critical to follow sprayer cleanout procedures to prevent contamination in sprayer loads following dicamba application. Severe crop injury may occur if any dicamba product remains in the spray equipment that is then used to spray sensitive crops.









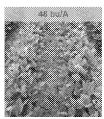
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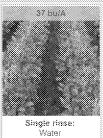
# Triple rinse

Improper cleanout can result in potential yield loss.

Comparison of three equipment cleanout procedures following dicamba application







Single rinse: Water



Double rinse: 1st rinse – water 2st rinse – ammonia



1<sup>st</sup> rinse – water 2<sup>nd</sup> rinse – ammonia 3<sup>rd</sup> rinse – water

Source: University of Masqual Extresion

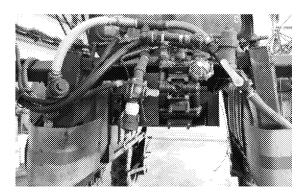
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# Sprayer cleanout

- Applicators must document that they have completed sprayer cleanout as required by dicamba product labels.
- Sprayers contain a complex system of hoses, pump, valves, caps, etc., providing plenty of areas for residues to collect.
- After using a dicamba product, all mixing and spray equipment (tanks, pumps, lines, filters, screens, and nozzles) must be cleaned with a strong, detergent-based cleaner.
- Rinsate must be disposed of in compliance with local, state and federal guidelines.



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## Prevent contamination in bulk handling and mixing equipment



- Care should be taken to reduce contamination not only in the spray system but in any equipment used to transfer or deliver product.
- Bulk handling and mixing equipment containing dicamba should be segregated whenever possible to reduce the potential for cross-contamination.
- Consider using block and check valves to ensure there is not potential for product buildup.
- Dedicated nurse trucks and tender equipment should be used when possible.

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# Sprayer cleanout rules 1-5

- 1. Do not clean sprayer near desirable vegetation, wells or other water sources.
- 2. Drain and flush tank walls, boom and all hoses with clean water.
- 3. Prepare a cleaning solution with a detergent, a commercial sprayer cleaner or ammonia according to the product's use directions.
- 4. Be sure to wash all internal parts of the tank, including the inside top surface with the cleaning solution. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
- 5. Flush hoses, spray lines and nozzles for at least one minute with the cleaning solution.

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# Sprayer cleanout rules 6-11

- 6. Repeat steps 3-5 two additional times.
- 7. Remove nozzies, screens and strainers, and clean separately in the cleaning solution after completing the above procedures.
- 8. Drain lines, filters and sump.
- 9. Rinse the complete spraying system with clean water.
- 10. Clean and wash off the outside of the entire sprayer and booms.
- 11. Dispose of all rinsate according to local, state and federal regulations.

If tender trucks are used to deliver "hot loads", appropriate cleanout procedures should be followed (i.e. triple rinse and pump cleanout).

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# Post-application record keeping requirement: Be sure to check the specific product label for any additional record-keeping requirements.

- Record keeping is required for applications of all dicamba herbicides used in dicambatolerant cotton and dicamba-tolerant soybeans.
- Create records as soon as practical but no later than 72 hours after application, unless state restrictions require records to be generated sooner.
- The certified applicator must keep records for a minimum of two years.
- · A record must be kept for each application.
- Records must be made available to State Pesticide Control Officials, USDA, and EPA upon request.

## Standard Record Keeping for Restricted Use Pesticides

☐ Brand or product name

☐ EPA registration number

☐ Total amount applied

☐ Month, day and year of application

Q Location of the application

Crop

☐ Size of treated area

☐ Name of certified applicator

☐ Certification number of certified applicator

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Di	camba-specific record keeping requirements
	Completion date and provider of required training and proof of completion
Q	Receipts or copies from purchase of product, required volatility-reduction agent (VRA) / buffering agent (pH modifier), and drift-reduction agent (DRA)
	A copy of the product label and any applicable state special local needs label
	Record of buffer distance and any non-sensitive areas included in buffer calculation
a	Record that a sensitive crop registry was consulted and documentation that adjacent field (immediately next to or only separated by a road, ditch, or field road) and crops/areas surrounding the field were surveyed prior to application: Records at a minimum must include the name of the sensitive crop registry and the date it was consulted and documentation of adjacent crops/areas and the date the survey was conducted.
	Start and end times of each application
	Application timing (e.g., pre-emergence, postemergence)
a	Air temperature in F at start and end of each application (at boom height for Engenia® herbicide)
Q	Wind speed and direction at boom height at start and end of each application
	Spray nozzle manufacturer/brand, type, orifice size, and operating pressure during each application
u	Tank-mix partners: Record of brand names, EPA registration numbers (if available), and use rates for all products, including VRA/pH modifier and DRA, that were tank-mixed with the dicamba product for each application
	Spray system cleanout: At a minimum, records must include confirmation that spray system was cleaned before use and that post-application cleanout was completed per label requirements.
Downi	oad Tavium application records form here: https://assets.syngenta-us.com/pdf/media/Tavium_RecordKeeping_Form_mech_interactive_2020.pdf
602 Synger	use in read a published for the province black. Always read and addissipated instructions, fig. Improvement Jimage read and Editor (about Instructions, Score products may not be registered for easis or use in ad actors or counties. This asse wheek with your local actors or  province the production of the product of the

## Summary



Many crops/plants are highly sensitive or susceptible to dicamba.



Do not tank mix with products containing ammonium sulfate (AMS).



Products may only be tank mixed with approved products. Visit product tank mix website for approved products.



All applications must include an approved volatility-reduction agent (VRA) / buffering agent (pH modifier).



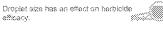
An approved drift-reduction agent (DRA) must also be included in the spray solution, unless otherwise indicated.



Only use approved nozzles designed to produce extremely coarse to ultracoarse droplets.



efficacy. Do not exceed a ground speed of 15



Spray equipment should be calibrated prior to each use to prevent drift.

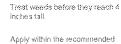
physical drift.



Minimum of % inch of painfall to activate the residual weed control.

Avoid off-target movement from sprayer

contamination, secondary movement and





timeframe for the specified crop.





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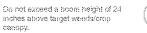
Application rate differs among product.

Consult label for details.

Do not spray during a temperature

increases with height from the ground).

inversion (when air temperature





23

applications. Consult product label for directions.

Maintain a downwind buffer for all



Follow sprayer cleariout procedures to prevent contamination in sprayer loads following dicamba application. This includes a triple rinse.

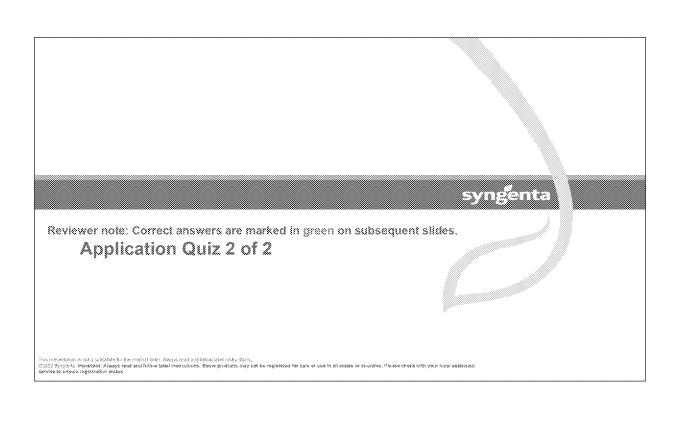


Create records within 72 hours of application and keep records for a minimum of two years.

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Which of the following requirements for applying dicamba products are correct? (Check all that apply.)

- A. Sprayer system clean out required before and after
- B. Boom height of 36 inches
- C. Do not exceed 15 mph ground speed
- D. Application wind speed should be between 5-15 mph
- E. Only apply between sunset and sunrise

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Why should only approved nozzles operated within specified pressure ranges be used when applying dicamba products? (Check all that apply.)

- A. Approved nozzles produce large droplets less susceptible to physical drift
- B. Approved nozzles reduce the percentage of driftable fine (small) droplets
- C. Use of approved nozzles is only required at wind speeds >10 mph

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Which of the following are mandatory record keeping requirements?

- A. Records must be kept for a minimum of two years or as required by state law
- B. Records must include wind speed at start/finish of application
- C. Records for product used and product labels must be kept
- D. Records must include buffer calculation
- E. Records must include applicator's certification number
- F. Records must include application start/stop time
- G. Records must include receipt for product purchased
- H. Records must include field location
- I. All of the above are correct

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To determine approved tank-mix partners for these dicamba products, refer to:

- A. The website for the product being applied that lists approved tank mixtures
- B. The product label contains all approved tank-mix partners
- C. My neighbor

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OSCOT Syngment reportant. Amongs read and follow label instructions. Some good late any not be required for each or use in adjustance or counties. His asso check with your local extension convice to answer regionation status.

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How many days before an application must the applicator visit the tank-mix website before applying these dicamba products?

- A. Any time during the application season
- B. Maximum of 7 days in advance
- C. Minimum of 14 days in advance
- D. Applicator may visit after the application

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Select all correct statements that pertain to spray equipment cleanout when applying these dicamba products.

- A. Thoroughly clean all equipment before AND after application
- B. Clean out all parts of spray system including filters, hoses, screens, etc.
- C. Include a commercial tank cleaner
- D. Properly dispose of all rinse water in compliance with local, state and federal guidelines

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CESSET Symptotic Importants Always road and Collow ladge importations. Some products may not be registered for each or use in all adapte or countries. These others with your local adaptacen consider to answer registeration and the second of the consideration and t	syngenta

# Quiz Question 16 Do not tank-mix dicamba with ammonium sulfate. A. True B. False This promittation is read a subsidiate for the product liber. Among to do not before for the registered for each or read in subsidiate for the product liber. Among to do not before for the registered for each or read in subsidiate for the product liber. Among to do not follow liber instructions. Store graduates into one to each or read in subsidiate for the product liber. Among to do not follow liber instructions. \*\*Syngenta\*\* \*\*

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Which is required during application of these dicamba products?

- A. Sprayer system cleanout before and after applications
- B. Do not exceed 15 mph ground speed
- C. Application wind speed should be between 3-10 mph
- D. Use only approved nozzles
- E. Read the label and follow the label
- F. Addition of a volatility reduction agent, buffering agent, or pH modifier
- G. Maintain a downwind buffer for all applications
- H. Do not apply until at least one hour after sunrise and no later than two hours before sunset
- I. Use only approved tank-mix partners
- J. All of the above

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### TO MEET THE DICAMBA TRAINING REQUIREMENTS

Some states have additional restrictions and requirements. Check with your state pesticide regulatory agency for additional training and application requirements or restrictions.

- As of March 3, 2022, Alabama, Florida, Georgia, and North Carolina do not accept online or live webinar dicamba applicator training provided by Syngenta. We will update the list as additional states approve dicamba applicator training provided by Syngenta.
- As of March 15, 2022, you must have all labeling applicable to your location in your possession for this product to be lawfully applied. Users must check www.TaviumTankWix.com for state specific additional labeling no more than 7 days before application.

## syngenta

# State-Specific Application Education for Dicamba Herbicides

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### Arkansas - Additional Application Requirements (Updated May 2021)

Full Regulations found in Class H section of ARKANSAS REGULATIONS ON PESTICIDE USE Agency No. 209.0 available at: <a href="https://www.agriculture.Arkansas.gov/wp-content/uploads/2021/05/New-Rules-for-Dicamba-Use-Effective-May-8.pdf">https://www.agriculture.Arkansas.gov/wp-content/uploads/2021/05/New-Rules-for-Dicamba-Use-Effective-May-8.pdf</a>

The following is a selection of rules specific to Dicamba product uses in dicamba-tolerant crops in Arkansas as of May 2021.

- Application cutoff in dicamba-tolerant soybeans and cotton is June 30<sup>th</sup>
  - Pre-plant applications of approved in crop dicamba formulations are allowed from April 16<sup>th</sup> June 30<sup>th</sup>
  - Pre-plant applications of non-approved dicamba formulations are prohibited April 16<sup>th</sup> October 31<sup>st</sup>
- Applications of dicamba are prohibited from July 1st October 31st
- Maintain a ¼ mile buffer, in all directions, from non dicamba-tolerant crops.
- Maintain a ¼ mile buffer, in all directions, from certified organic crops and commercially grown specialty crops.

### Arkansas - Additional Application Requirements (Updated May 2021)

- Maintain a 1-mile buffer, in all directions, from University or USDA research stations.
- Do not tank mix with glyphosate.

### Record keeping requirements additional to the federal requirements:

- Application records must be kept for 3 years and must be available for inspection by Plant Board representatives.
- In addition to the records required by the federal label, applicators must record:
  - Type of equipment used, and Firm's Application Equipment Number if applied by a commercial applicator.
  - Type of instrument used to measure wind speed and direction and location of instrument at the time of reading.
- Visit <u>www.xtendimaxapplicationrequirements.com</u> for an Arkansas record keeping form.

### Training:

 Applicators must provide proof of annual dicamba training to Pesticide Dealers prior to purchase.

### Illinois

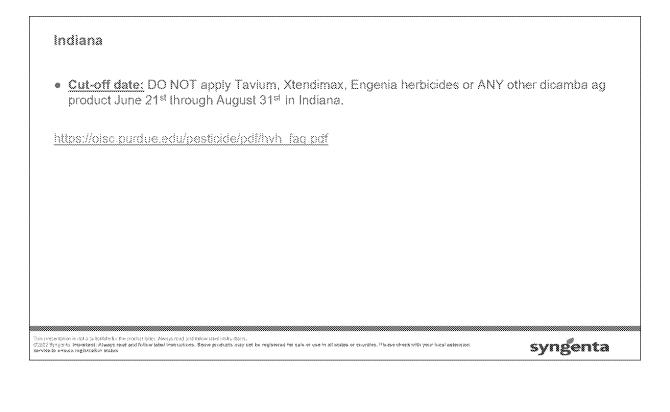
- Temperature Restriction: Application of a pesticide containing dicamba on soybeans must not be made if the air temperature at the field at the time of application is over 85° F or if the National Weather Service's forecasted high temperature for the nearest available location for the day of application exceeds 85° F. Local National Weather Service forecasts are available at https://www.weather.gov.
- <u>Cut-off Date Restriction:</u> Application of a pesticide containing dicamba on soybeans must not be made after June 20 of each year.
- Consultation with FieldWatch: Before making an application of a pesticide containing dicamba on soybeans, the applicator must consult the FieldWatch sensitive crop registry (https://www.fieldwatch.com) and comply with all associated record keeping label requirements.
- <u>Nature Preserves Commission Sites:</u> Application of a pesticide containing dicamba on soybeans must not be made if the wind is blowing toward any Illinois Nature Preserves Commission site that is adjacent to the field of application.
- Adjacent Residential Areas: Application of a pesticide containing dicamba on soybeans must not be made
  when the wind is blowing toward an adjacent residential area.

APPLICATORS: Please check the IDOA website for the most up to date information:

https://www2.illinois.gov/sites/agr/Pesticides/Pages/Dicamba.aspx

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lowa	
<ul> <li>Do not apply dicamba over-the-top products after June 20<sup>th</sup>.</li> </ul>	
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### Kentucky

- Any deviation from the product label requirements and all supplemental label/document requirements constitutes a violation of state statute or regulation.
- A violation of state statute or regulation may result in monetary penalties assessed to the violator.
- Counties requiring notice of endangered species when making dicamba applications include BARREN, BOURBON, BULLITT, FLEMING, FRANKLIN, HARDIN, HARRISON, HENRY, JEFFERSON, MEADE, NICHOLAS, and WARREN.
- The Kentucky Department of Agriculture's Pesticide Inspectors will be conducting routine inspections of Private Applicators and Commercial Applicators to ensure compliance with these new label requirements.
- You must have your application records immediately available at the time of inspection. If you
  utilize and electronic record-keeping system, you must be able to readily access these
  records. The Kentucky Department of Agriculture's recommendation is to complete the
  label's record-keeping requirement after each application and keep those records on hand.
- . DO NOT use dicamba if you are unwilling or unable to follow requirements.
- Cut-off date for over-the-top applications to Dicamba Tolerate soybeans is June 30.

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### Michigan

- Commercial pesticide applicators are required to maintain records of restricted use pesticide applications for 3 years (Regulation 636, Rule 15(1).
- Private applicators do not have a recordkeeping requirement in State of Michigan law. However, USDA requires that records or restricted use pesticides must be recorded no later than 14 days following a federally restricted use pesticide application and must be maintained for 2 years following the application in accordance with the 1990 Farm Bill. This retention requirement is consistent with the new labels of Engenia, XtendiMax, and Tavium Plus.

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### Minnesota

- Dicamba is an important tool in combating herbicide resistant weeds in Dicamba Tolerant (DT) soybeans. Products containing dicamba can cause serious damage to non-dicamba-tolerant soybeans and to other sensitive crops and non-crop plants.
- The MDA received more than 300 dicamba drift related complaints during the 2021 growing season. The annual totals for alleged dicamba off-site movement complaints were:
  - o 2021: 304 reports
  - o 2020: 128 reports
  - o 2019: 20 reports
  - o 2018: 51 reports
  - o 2017: 249 reports
- The MDA wishes to preserve this tool for farmers. However, it must be used without impacts on neighboring crops, homes, farms, and gardens.
- Dicamba is a Restricted Use Pesticide (RUP) that can only be applied by applicators that are licensed or certified to apply RUPs in Minnesota.

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### Minnesota

- For the 2022 growing season, in Minnesota, the following restrictions apply to the three dicamba products, XtendiMax®, Engenia®, and Tavium®.
  - Cutoff date: Do not apply south of interstate 94 after June 12. Do not apply north of interstate 94 after June 30.
  - Cutoff Temperature: Do not apply if the air temperature of the field at the time of application is over 85°F or the National Weather Service's forecasted high temperature for the nearest available location for the day exceeds 85°F.

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2000 Symptom in Proportions Amongs read and follow laber Francistoria. Some products may not be registered for each or use in all seates or countries. These others with your focal extensions and analysis of the product of the produ

### Ohio - Private applicators

- \* (OAC 901:5-11-10)
- Records must be recorded on day of application and maintained for three years.

### (E) Private applicators

- 1. The responsible private applicator's name and license number.
- 2. The brand or product name and EPA registration number of the restricted use posticide applied.
- 3. The total amount of the restricted use posticide applied.
- Location and/or field number for area treated and total area or acreage treated.
- 5. Crop treated.
- 6. Month, day and year of application.

### Additional label-required records:

- 1. Applicator proof of training (including training date and provider)
- 2. Application timing (PRE or days after planting).
- Receipts of purchase for product, required volatility reduction agent (VRA) / buffering agent (pH modifier), and drift-reduction agent (DRA).
- 4. Product label(s).
- 5. Record that a sensitive crop registry was consulted and documentation that adjacent field and crops/areas surrounding the field were surveyed prior to application. Records at a minimum must include the name of the sensitive crop registry and the date it was consulted and documentation of adjacent orops/areas and the date it was consulted and documentation of adjacent
- 5. Date and procedure for spray system cleanout (before and after spraying).
- 7. List of tank-mix products with EPA registration numbers, including use rates.
- Spray nozzie manufacturer/brand, type, orifice size, and operating pressure during application.
- Air temperature in "F at start and finish of each application("Engenia" at broom height)
- Wind speed and direction at boom height at start and finish of each similarities
- Buffer distance calculation and any areas included within the buffer distance calculations as allowed.

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### Ohio - Commercial applicators

- · (OAC 901:5-11-10)
- Records must be recorded in English on day of application and maintained for three years.

### (A) Commercial applicators:

- Name of responsible licensed commercial applicator and names of the trained service persons applying pesticides under the commercial applicator's direct supervision.
- 2. Name and address of person contracting for service.
- 3. Date of application.
- 4. Type and size of area to be treated.
- 5. Location of field identification number of treatment area.
- Trade name (transmane) and EPA registration number of pesticides used.
- 7. Total amount of each pesticide product used.
- 8. If diluted, total volume of use dilution applied.
- 9. Type of equipment used.
- 10. Time of day of application, including the time of starting the actual application and the time of completion of application or, if uncompleted, the time when operations ceased for the day.
- 11. Wind direction and velocity and air temperature.

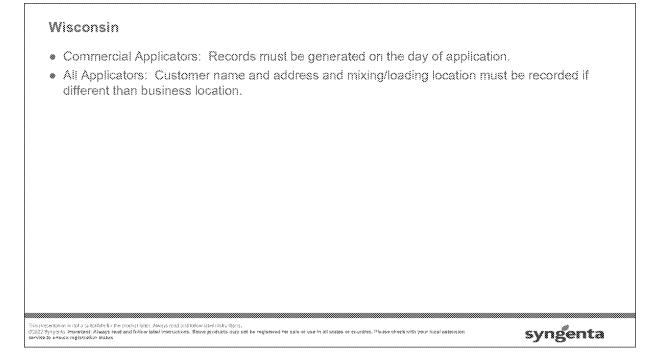
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- 6. Date and procedure for spray system cleanout (before and after spraying).
- 7. List of tank-mix products with EPA registration numbers, including use rates.
- Spray nozzie manufacturer/brand, type, orifice size, and operating pressure during application.
- Air temperature in "F at start and finish of each application ("Engenia\* -- at boom height)
- 10. Wind speed and direction at boom height at start and finish of each application.
- 41 Buffer distance calculation and any areas included within the buffer distance calculations as allowed.

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<b>«</b>	South Dakota	
8	<ul> <li>Record keeping is required for each application of these products. The certified a keep required documentation for a period of three years; applicator records must the application at the end of each day.</li> </ul>	
/22022 Syn	tables in each a allocated for the product lister. Amongs could and indice steel indice tons.  Generally indicated the the product lister. Amongs could and indice steel indice tons.  Some good in registerate through could be follow listed instructions. Some good letter may not be registered for each or use in all seatons or covertion. He above through your local seatons consequences among a registerate manage.	syngenta



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Always read and follow label instructions.

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Performance evaluations are based solely upon interpretation of public information and field observations.

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